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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/721,895	11/26/2003	Alfred Niederberger	10139/04702	6293
	7590 10/06/200 & MARCIN, LLP	8	EXAMINER	
150 BROADW.	AY, SUITE 702		ARAJ, MICHAEL J	
NEW YORK, NY 10038			ART UNIT	PAPER NUMBER
			3775	
			MAIL DATE	DELIVERY MODE
			10/06/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)					
	10/721,895	NIEDERBERGER ET AL.					
Office Action Summary	Examiner	Art Unit					
	MICHAEL J. ARAJ	3733					
The MAILING DATE of this communication app	ears on the cover sheet with the c	orrespondence address					
Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).					
Status							
1)⊠ Responsive to communication(s) filed on <u>20 Ju</u>	ine 2007.						
	action is non-final.						
3) Since this application is in condition for allowar							
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.					
Disposition of Claims							
4)⊠ Claim(s) <u>1-7,9-21,23-42,44-47 and 51</u> is/are pending in the application.							
4a) Of the above claim(s) is/are withdrawn from consideration.							
5)⊠ Claim(s) <u>25-39 and 44-46</u> is/are allowed.							
6)⊠ Claim(s) <u>1-7,9-21,23,24,40-42,47 and 51</u> is/are rejected.							
7) Claim(s) is/are objected to.	7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	r election requirement.						
Application Papers							
9) The specification is objected to by the Examine	r.						
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.					
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a) ☐ All b) ☐ Some * c) ☐ None of:							
1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list	of the certified copies not receive	d.					
Attachment(s) 1) Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	ate					
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 7/10/08.	5) Notice of Informal P 6) Other:	atent Application (PTO-152)					

DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-4, 6, 7, 9-21, 24, 40-42, 47 and 51 are rejected under 35 U.S.C. 103(a) as being unpatentable over Esser (U.S. Patent No. 6,096,040) in view of Kondo (U.S. Patent No. 3,779,240).

Esser discloses a bone plate (30) comprising an elongated shaft portion (32) having a first width, a head portion (34) connected to the shave portion having a greater width along a common longitudinal axis, at least one partially threaded screw hole (22) located in the head and shaft portion where in at least one of said screw holes are configured to engage a head of a bone screw to form an angularly stable connection with the bone screw. The first and second screw holes include at least a partial peripheral groove (64A) for engaging a head of a bone screw that is substantially wedged shaped. Esser also discloses a third width that widens exponentially, the shaft portion being curved in the form of an elliptical arc along the longitudinal axis, and the shaft portion lying in a first plane that is substantially parallel to the head portion lying in a second plane (see Figure 4). At least one portion of the bone plate has a curvature that runs transversely to the longitudinal axis, where the curvature substantially runs over the entire length of the bone plate (Figure 5). The head portion is connected to the

shaft portion at a transition portion where one first pair of the first holes is located farther from the transition portion than the second pair of the first holes, and where at least one of the second holes defines a central axis that is substantially perpendicular to the longitudinal axis. Also disclosed are the plurality of second screw holes are symmetrically arranged about the common longitudinal axis and the plurality of first screw holes are asymmetrically arranged about the common longitudinal axis. (See Fig. 2) At least one of an upper surface and a lower surface of the bone plate is divided substantially in half by the common longitudinal axis, and at least a first pair of first holes is symmetrically disposed about the longitudinal axis and at least a second pair of first holes is asymmetrically disposed about the longitudinal axis (Fig. 2).

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Esser disclose the claimed invention except for the elongated perimeter of at least one screw hole being formed by first and second overlapping shapes of different size and the range of the thread pitch, plate thickness, elliptical arc with a major and minor axis, curvature of radius, acute angles and obtuse angles. Kondo discloses an elongated perimeter of at least one screw hole formed by a first and second overlapping shape of different size so that when the screw is tightened the hole causes progression of the plate along tits axis to encourage and retain the fracture surfaces in firm abutment (Col 2, Paragraph 1). It would have been obvious to one skilled in the art at the time the invention was made to have constructed the device of Wack et al. with an elongated perimeter being made of two different sized holes in view of Kondo., in order to have a firmer support for the fractured bone. With respect to the ranges, it would have been obvious to one having ordinary skill in the art at the time the invention was made to

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construct the bone plate of Wack et al. having the ranges as set forth in the disclosed claim, since it has been held that where the general conditions of a claim are disclosed in the prior art, discovering the optimum or workable ranges involves only routine skill in the art. In re Aller, 105 USPQ 233.

Claims 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Esser (U.S. Patent No. 6,096,040) in view of Kondo (U.S. Patent No. 3,779,240) further in view of Schafer et al. (U.S. Patent No. 6,572,622).

The combination of Esser and Kondo disclose the claimed invention, as applied to claim 1, except for the plate having screw holes that are double threaded. Shafer et al. teaches a serrated or threaded edge (32) on two portions of the aperture (the flat flank (34) and the steep flank (36)) producing a double threaded screw hole. It would have been obvious to one skilled in the art at the time the invention was made to construct the plate of Esser with a double threaded screw hole in view of Schafer et al., for facilitating screwing in the bone screw and prevent automatic unscrewing (Col. 3, lines 6-11).

Response to Arguments

Applicant's arguments with respect to claims 1-25 have been considered but are moot in view of the new ground(s) of rejection.

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Allowable Subject Matter

Claims 25-39 and 44-46 are allowed.

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to MICHAEL J. ARAJ whose telephone number is (571)272-5963. The examiner can normally be reached on M-F 8am-5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eduardo Robert can be reached on 571-272-4719. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Michael J Araj/ Examiner, Art Unit 3733

/Eduardo C. Robert/

Supervisory Patent Examiner, Art Unit 3733